

## Gouda Vuurvast AK 99 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: This high purity alumina based brick finds wide application in chemical reactors. The low percentages of SiO<sub>2</sub> and Fe<sub>2</sub>O<sub>3</sub> makes this brick very resistant in reducing conditions. Remarks: This data represents average values, obtained from samples that were cut from standard bricks. Information provided by Gouda Vuurvast.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gouda-Vuurvast-AK-99-Dense-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-AK-99-Dense-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	3.25 g/cc	0.117 lb/in <sup>3</sup>	Apparent
Porosity	15 - 18 %	15 - 18 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	75.0 MPa	10900 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.40 W/m-K	23.6 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	3.40 W/m-K	23.6 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
	5.00 W/m-K	34.7 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	>= 1750 °C	>= 3180 °F	Deformation under load - t <sub>a</sub>
	1800 °C	3270 °F	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	>= 99 %	>= 99 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 0.15 %	<= 0.15 %	
Na <sub>2</sub> O or K <sub>2</sub> O	<= 0.35 %	<= 0.35 %	

Component Elements Properties	Metric	English	Comments
<b>Descriptive Properties</b>			
Segeccone		42	
Thermal Shock Resistance		20 cycles	DIN 51068

## Contact Songhan Plastic Technology Co.,Ltd.

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